

10/765,864 CLAIMS LISTING DEC 2006 FILE 1120W104

1. (currently amended) A steel stud suitable for use in construction of thermally efficient buildings and comprising;
- a web defining two edges;
 - ~~a first right angular flange formed on one said edge~~ a first triangular tube formation formed on one said edge;
 - ~~a first angular edge strip formed along the free edge of said first right angular flange;~~
 - ~~a second right angular flange formed on the other said edge~~ a second triangular tube formation formed on the other said edge;
 - ~~a second angular edge strip formed along the free edge of said second right angular flange;~~
 - web openings of generally non-triangular shape formed through said web between said first and second ~~right angular flanges~~ triangular tube formations;
 - edges of said openings being formed out of the plane of said web into generally right-angular flanges;
 - generally circular depressions formed in said web between said web openings and said ~~right angular flanges~~ triangular tube formations; and,
 - depression openings formed within said depressions, and ,
 - reinforcing flange ring -walls formed around said depression openings.
2. (previously presented) A steel stud as claimed in claim 1 and wherein said web between said web openings defines generally hour-glass shaped web portions, which

are narrower at about the mid point of said web, and wherein said semi-circular openings are directed towards said narrower portions of said hour-glass shaped web portions.

3 (cancelled)

4. (currently amended) A steel stud as claimed in claim 1 3 and wherein said web between said web openings defines generally transverse shaped web portions, which are narrower at about the mid point of said web, and wherein said depression openings are located adjacent each end of said narrower portions.

5. (currently amended) A steel stud as claimed in claim 1 for use in forming a composite construction panel wherein the panel is formed with a thin panel of cast material, and a reinforcing grid of sheet metal studs wherein said reinforcement studs

have embedment portions which are embedded in the cast panel; and wherein said steel stud includes,

an embedment flange portion formed along one edge of said web;

a retention edge strip on said embedment flange portion formed out of the plane of said embedment flange portion; and,

a plurality of spaced apart embedment flange openings formed in said embedment flange portion, said embedment flange portions being embedded in said panel.

6. (previously presented) A steel stud as claimed in claim 5 wherein said embedment flange portion is formed at an angle to said web and wherein said embedment flange openings are formed by a series of semi-arcuate openings located spaced apart lengthwise along said embedment flange portion .

7. (currently amended) A steel stud as claimed in claim 6 including flanges formed around said web openings.

8. (cancelled)

9. (cancelled)

10. (currently amended) A steel stud as claimed in claim 1 9 and wherein said including ~~a~~ triangular tube formations have formation formed on said free edge, having a first angled tube wall, a second transverse tube wall, and a return tube wall ;
a free edge of said return tube wall being fastened to said web.;

~~an embedment flange portion formed along the opposite edge of said web;~~
~~a retention edge strip formed on said embedment flange portion and formed out of the~~
~~plane of said embedment flange portions; and,~~
~~a plurality of spaced apart flange openings formed in said embedment flange portion.~~

11. (cancelled)

12. (currently amended) A steel stud as claimed in claim 1 wherein said 44 and including web openings are of generally circular shape formed through said web between said embedment flange portions and said free edge tubular formations, and edges of said circular openings being formed out of the plane of said web, into a continuous annular ring.

13 (cancelled)

14. (cancelled)

15. (cancelled)

16. (cancelled)

17 (cancelled)

18 (cancelled)

19 (cancelled)

20. (cancelled).